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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,104	04/30/2001	Gavan Tredoux	A0840	1617
Patent Documentation Center Xerox Corporation Xerox Square 20th Floor 100 Clinton Ave. S. Rochester, NY 14644			EXAMINER	
			BLAIR, DOUGLAS B	
			ART UNIT	PAPER NUMBER
			2142	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE .	
3 MONTHS		01/11/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office A. 4' Occurrence	09/845,104	TREDOUX ET AL.				
Office Action Summary	Examiner	Art Unit				
	Douglas B. Blair	2142				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 06 Oc	ctober 2006.					
·- · · · · · · · · · · · · · · · · · ·	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) 9-23 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9-23</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	1					
· · · · · · · · · · · · · · · · · · ·						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the certified copies not received.						
Attachmont/o\						
Attachment(s)  1) X Notice of References Cited (PTO-892)	A) Interview Commerce	(PTO 413)				
Notice of References Cited (P10-892)	4) Light Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Informal Page					
Paper No(s)/Mail Date	6)					

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#### DETAILED ACTION

## Response to Arguments

1. Applicant's arguments, see Remarks, filed 10/6/2006, with respect to the rejection(s) of claim(s) 9 under 35 USC section 103 as obvious by Spicer and McMullan have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of 35 USC section 103 as obvious by Spicer and Harsch.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 9-10, 13-15, 20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 7,007,093 to Spicer et al. in view of U.S. Patent Number 7,088,698 to Harsch et al..
- 4. As to claim 9, Spicer teaches a method of accessing an internal network device on a protected network, the network including a security device, the method comprising: storing data addressed to the internal network device in an external proxy server (col. 4, lines 4-24, the Proxy Server 114 stores data addressed to the Network Resources 104.); maintaining a proxy agent on the protected network, the proxy agent executing the step of: polling the external proxy server for data addressed to the internal network device, where polling includes: connecting to the external

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proxy server to check for pending traffic (col. 4, lines 4-24, the Polling Server 116 polls the Proxy Server 114); receiving from the external proxy server when the external proxy server has received data from a client (col. 4, lines 4-24, Polling Server receives client request for Network Resources 104); forwarding to the internal network device any data on the external proxy server and addressed to the internal network device; and forwarding to the external proxy server any data addressed to an external device in communication with the external proxy server (col. 4, lines 4-24, the Network Resources 104 are disclosed as being printers and file servers and other similar devices which inherently send responses); however Spicer does not explicitly teach the external proxy server sending a stream of spurious bytes if there is nothing pending for the internal network device.

Harsch teaches a method of receiving a stream of spurious bytes from a proxy server if there is nothing pending for the network device (col. 4, line 54-col. 5, line 5, the keepalive packet is considered spurious bytes to maintain the connection).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of Spicer regarding communication through a private network with the teachings of Harsch regarding the transmission of spurious bytes because spurious bytes keep communication channels open and thus preventing communication channels from being prematurely closed (Harsch, col. 9, lines 47-59).

5. As to claim 10, Spicer teaches a method of polling the external server at regular intervals (col. 4, lines 4-24).

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- 6. As to claim 13, Harsch teaches a method of multiplexing multiple requests from the proxy agent to proxy server through the same connection (col. 4, line 54-col. 5, line 5, the connection is kept open so multiple requests can be made).
- 7. As to claim 14, Spicer teaches a method of maintaining by the proxy server maps between local TCP/IP ports of the proxy server and private IP addresses on the protected network, the maps being distinguished by an identity of the proxy agent used to access them (col. 4, lines 4-44).
- 8. As to claim 15, Spicer teaches a method of publishing by each proxy agent a list of addresses it can reach to the external proxy server, the external proxy server using this list to create a respective map between local ports and proxy agents (col. 4, line 55-col. 5, line 15).
- 9. As to claim 20, Spicer teaches a method of providing network administrators control over the system including granting administrators the ability to allow and deny entry into the protected network on a per session basis (col. 4, line 55-col. 5, line 15).
- 10. As to claim 22, Spicer teaches a method of providing a network administrator control over the system including granting administrators the ability to allow and deny entry into the protected network on a per session basis (col. 8, lines 39-58).
- 11. Claim 11-12, 16, 20-21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 7,007,093 to Spicer et al. in view of U.S. Patent Number 7,088,698 to Harsch et al. in further view of U.S. Patent Number 6,510,464 to Grantges Jr. et al..
- 12. As to claim 11, the Spicer- Harsch combination does not explicitly teach the use of two separate protocols to inside and outside the private network.

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Grantges Jr. teaches a method of communicating by an internal network device with a proxy using a first network protocol and an external network device communicating with the proxy using a second protocol (Figure 7).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer- Harsch combination regarding communication to devices on a private network with the teachings of Grantges, Jr. regarding the use of different protocols inside and outside of the private network because some connections may be required to be secure.

- 13. As to claim 12, Grantges Jr. teaches a method wherein data addressed to an internal network device using a second network protocol is transmitted to the internal device using the first protocol so that the second protocol is carried to the internal network device inside the first network protocol (HTTP traffic is encrypted using HTTPS).
- 14. As to claim 16, the Spicer- Harsch combination does not explicitly teach ensuring cookie delivery.

Grantges, Jr. teaches a proxy server that ensures proper cookie routing (col. 11, line 63-col. 12, line 10).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer- Harsch combination regarding a system for communicating with private network devices with the teachings of Grantges, Jr. regarding the routing of cookies because cookies are commonly communicated during HTTP communication.

15. As to claim 18 and 19, they are rejected for the same reason as claims 11 and 12.

16. As to claim 20, Grantges Jr. teaches the use of X.509 certificates (Fig 7).

17. As to claim 21, the Spicer- Harsch combination teaches the method of claim 9 however the Spicer- Harsch combination does not explicitly teach rewriting cookies with unique identifiers.

Grantges Jr. teaches rewriting cookies with unique identifiers to prevent inadvertent transmission of private information to an incorrect recipient on the protected network (col. 9, line 54-col. 10, line 5).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer- Harsch combination regarding a system for communicating with private network devices with the teachings of Grantges, Jr. regarding the routing of cookies because cookies are commonly communicated during HTTP communication.

18. As to claim 23, the Spicer- Harsch combination teaches the method of claim 9 however the Spicer- Harsch combination does not explicitly teach granting a key for access.

Grantges teaches a method wherein access is conferred by granting a key with a predetermined life span (col. 7, lines 63-col. 8, line 14).

It would have been obvious to one of ordinary skill in the Computer Networking art at the time of the invention to combine the teachings of the Spicer- Harsch combination regarding a system for communicating with private network devices with the teachings of Grantges, Jr. regarding granting a key because keys are commonly used to identify requesters.

### Conclusion

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19. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Douglas B. Blair whose telephone number is (571) 272-3893.

The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Douglas Blair

ANDREW CALDWELL SUPERVISORY PATENT EXAMINER

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